

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P650693

Luminaire Tested: **GALN-SA1C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3307.7 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

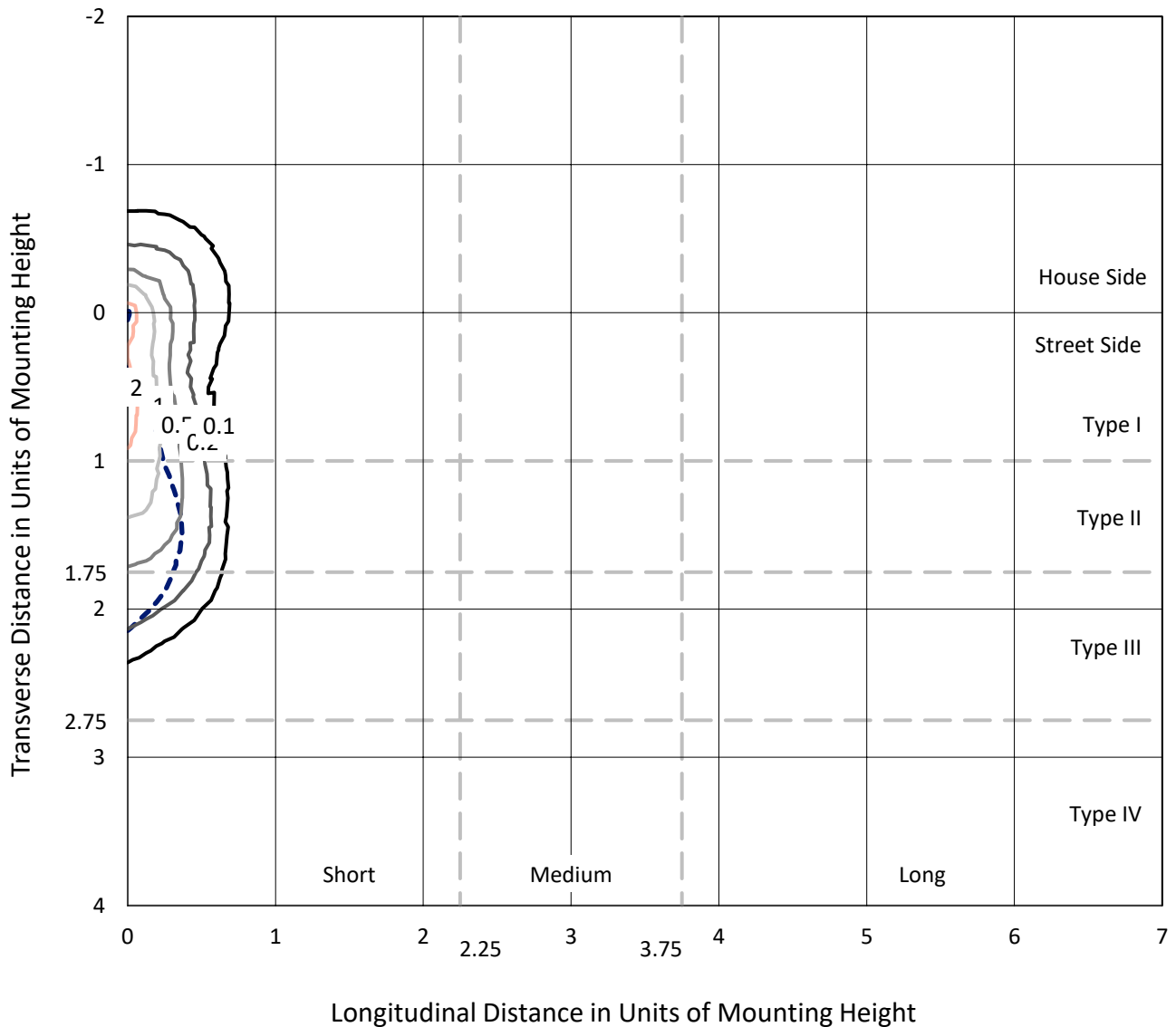
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

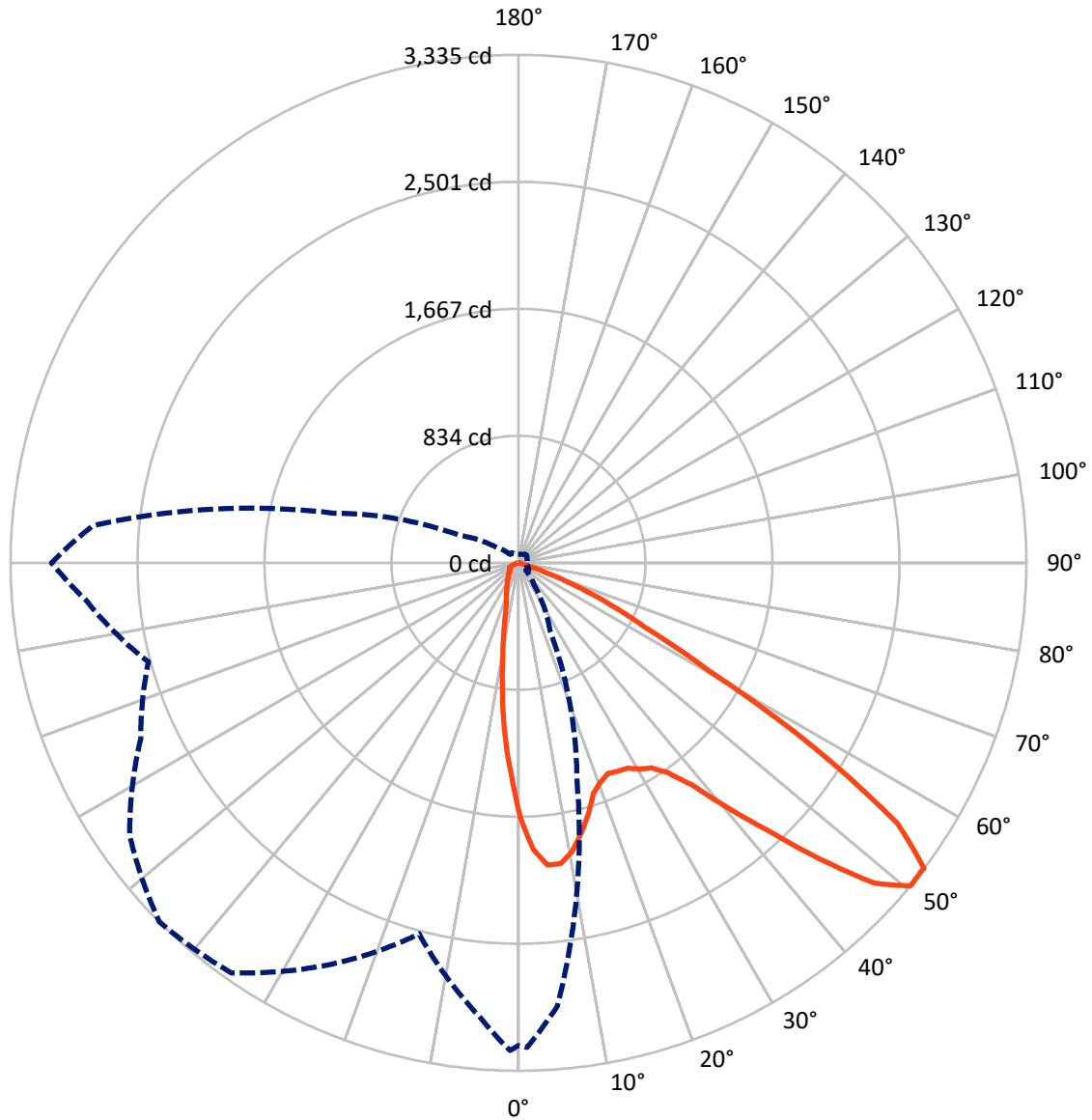
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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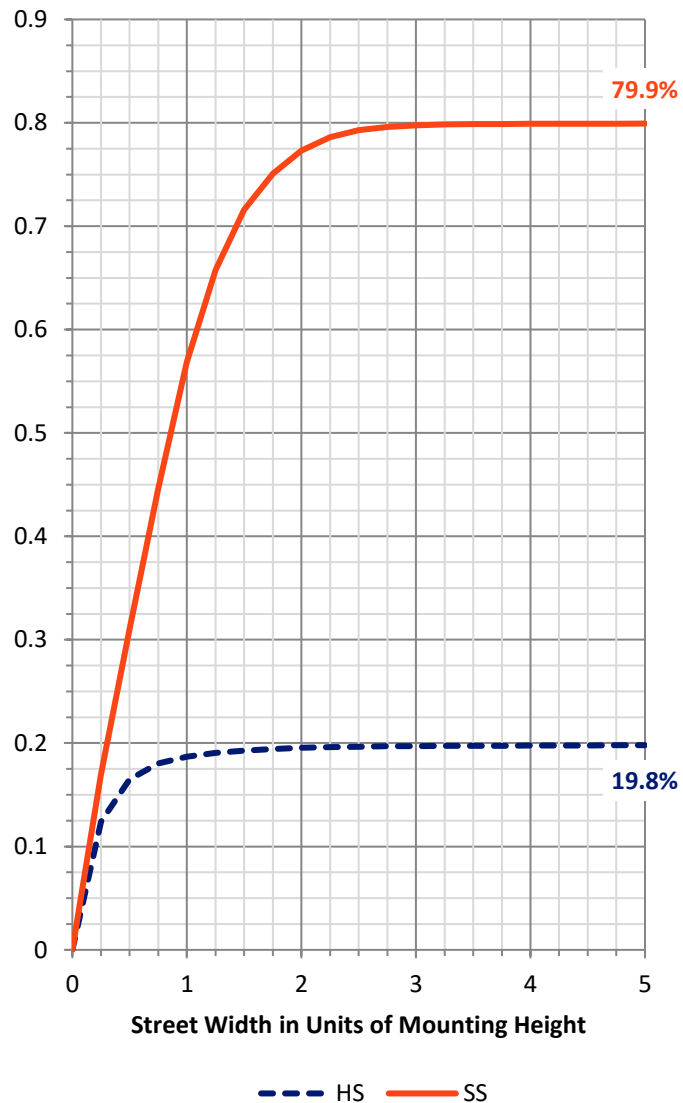
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	662.5	0.0	662.5
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	2645.1	0.0	2645.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	3307.7	0.0	3307.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	3.7
10°-20°	243.0	7.3
20°-30°	365.1	11.0
30°-40°	547.9	16.6
40°-50°	770.1	23.3
50°-60°	830.7	25.1
60°-70°	385.7	11.7
70°-80°	36.3	1.1
80°-90°	6.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3307.7	100.0
0°-180°	3307.7	100.0

**Coefficient of Utilization**

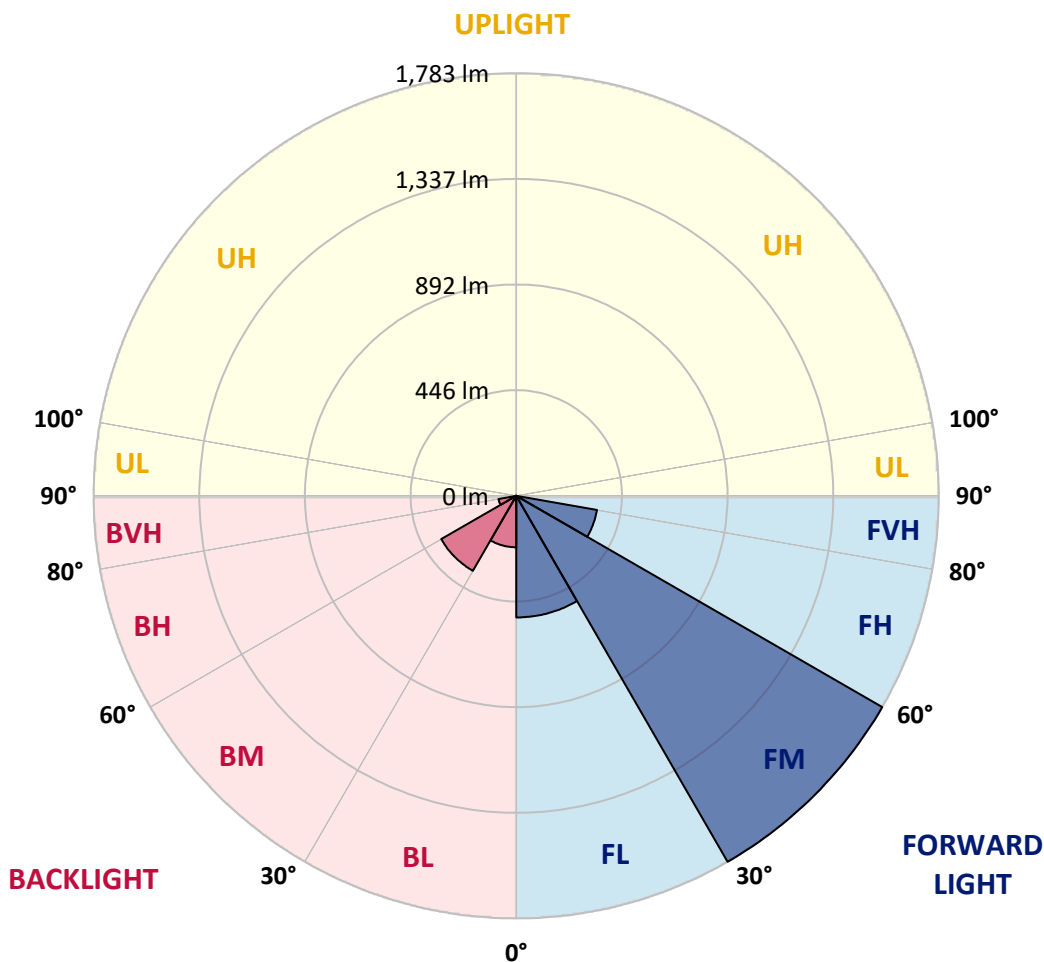


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.2	15.5			
FM (30°-60°)	1783.1	53.9			
FH (60°-80°)	345.9	10.5			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	217.2	6.6	B1/500		
BM (30°-60°)	365.6	11.1	B1/1000		
BH (60°-80°)	76.1	2.3	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1743.6	1716.7	1682.7	1654.4	1612.4	1527.8	1504.8	1477.2	1454.3	1423.4	1380.1
5°	1585.5	1577.0	1561.2	1454.9	1378.1	1275.8	1191.8	1156.3	1109.7	1071.7	1044.1
7.5°	1464.8	1430.6	1380.8	1273.8	1151.1	1041.5	948.3	893.8	832.2	811.1	773.7
10°	1335.5	1343.3	1269.8	1119.5	971.3	882.6	824.9	772.4	716.6	679.9	626.7
12.5°	1294.1	1268.6	1212.1	1026.4	899.7	817.0	746.8	681.9	622.8	563.7	512.5
15°	1321.0	1281.7	1202.9	1006.7	844.6	741.6	653.6	565.7	511.2	435.7	382.6
17.5°	1417.5	1386.1	1280.3	1027.7	816.4	669.4	538.8	448.3	364.9	296.6	269.7
20°	1578.3	1533.6	1401.1	1054.6	774.4	582.1	437.1	325.5	246.7	217.9	202.8
22.5°	1735.8	1711.5	1544.2	1106.4	737.0	504.7	328.2	219.2	184.4	179.1	169.3
25°	2035.7	1962.9	1762.7	1200.3	708.1	431.9	247.4	176.5	156.2	152.2	153.6
27.5°	2214.2	2153.2	1964.8	1262.7	675.9	376.0	209.3	162.1	148.4	139.8	136.5
30°	2385.5	2314.6	2065.2	1299.4	607.0	317.0	185.7	155.5	152.2	139.8	135.8
32.5°	2517.4	2447.8	2210.3	1354.5	578.9	278.9	152.9	121.4	112.9	111.6	123.4
35°	2719.5	2645.4	2334.3	1384.7	557.2	259.2	132.5	108.3	98.4	94.5	95.1
37.5°	2907.8	2857.4	2449.2	1396.5	534.2	253.3	118.7	97.1	88.6	86.0	85.3
40°	3065.4	2952.5	2558.1	1409.0	524.4	242.1	110.3	88.6	82.7	78.7	78.7
42.5°	3137.6	3022.7	2680.2	1401.8	521.8	224.5	110.3	81.4	76.8	72.8	72.2
45°	3121.8	3075.2	2734.6	1398.5	521.8	206.7	100.4	79.4	72.8	67.6	66.3
47.5°	3162.5	3101.4	2802.9	1412.3	511.2	194.3	84.7	83.3	68.9	62.3	61.1
50°	3169.7	3181.5	2921.6	1483.8	488.3	178.5	66.3	82.0	66.3	56.4	55.1
52°	3217.0	3143.5	2957.8	1521.9	464.0	166.7	55.8	70.2	63.7	52.5	51.2
52.5°	3152.0	3199.9	2966.3	1535.7	466.6	158.8	53.8	68.9	62.3	52.5	49.2
55°	3079.2	3125.1	2931.5	1565.2	427.9	124.7	42.0	49.9	56.4	45.9	44.0
57.5°	2676.2	2722.8	2547.6	1433.2	348.5	88.0	34.8	37.4	49.9	42.6	40.7
60°	2378.9	2345.5	2138.1	1195.7	247.4	49.2	27.6	28.8	54.5	39.4	38.7
62.5°	2174.2	2102.7	1787.0	923.3	151.0	32.8	21.7	22.3	42.0	36.8	36.8
65°	1608.5	1528.4	1187.2	558.5	74.2	23.0	16.4	17.7	26.2	31.5	31.5
67.5°	918.1	887.3	573.6	252.0	30.9	14.5	12.4	13.8	20.4	25.6	24.3
70°	422.0	378.7	220.5	53.2	14.5	9.8	9.8	11.2	16.4	19.0	17.7
72.5°	123.4	116.8	53.8	8.5	5.9	5.9	6.6	8.5	12.4	14.5	13.1
75°	9.2	5.9	4.0	2.6	2.6	4.0	5.2	8.5	12.4	13.8	11.2
77.5°	0.7	1.3	0.7	0.7	1.9	4.0	5.9	10.5	16.4	17.1	12.4
80°	0.7	0.7	0.0	0.7	1.9	4.0	6.6	11.8	18.3	19.7	10.5
82.5°	0.0	0.0	0.0	0.7	2.6	5.2	7.9	12.4	17.1	21.0	11.2
85°	0.0	0.0	0.0	0.7	4.0	7.2	9.2	3.3	1.9	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1410.9	1393.9	1387.3	1393.2	1391.3	1389.3	1425.4	1417.5	1416.2	1428.0	1425.4
5°	1059.2	1029.0	1111.7	1078.2	1113.0	1134.0	1138.0	1139.9	1164.2	1138.6	1172.1
7.5°	754.7	762.5	761.9	784.2	824.3	859.7	880.7	864.3	863.0	859.7	845.3
10°	603.1	589.3	586.7	581.5	593.9	624.1	649.7	629.3	614.9	634.6	628.7
12.5°	492.8	473.8	463.3	442.3	443.0	463.3	463.3	463.3	477.8	488.9	497.5
15°	378.0	362.2	362.2	341.3	336.7	337.3	347.8	349.1	372.1	378.7	382.0
17.5°	264.5	255.9	265.8	274.3	269.0	270.4	274.3	275.6	278.9	276.3	282.8
20°	203.4	202.1	204.8	219.8	231.0	237.6	233.0	226.4	222.4	213.3	213.3
22.5°	172.6	175.2	179.8	192.3	206.7	210.7	205.4	190.3	178.5	177.2	177.9
25°	153.6	156.2	163.4	171.3	179.1	185.7	180.5	169.3	162.7	156.8	156.8
27.5°	141.8	143.1	147.0	152.9	159.5	164.8	162.7	156.8	149.6	147.0	141.1
30°	132.5	134.6	139.1	140.4	146.3	148.9	145.7	144.4	139.8	136.5	134.6
32.5°	128.0	127.3	130.6	131.9	132.5	134.6	130.6	132.5	131.9	126.7	124.7
35°	96.5	101.8	110.3	117.5	119.4	122.0	121.4	118.7	111.6	105.6	98.4
37.5°	86.6	89.9	94.5	100.4	108.3	111.6	110.3	103.7	95.1	91.2	89.9
40°	80.1	82.0	86.0	89.9	97.8	103.7	99.1	93.2	86.6	83.3	81.4
42.5°	74.2	74.8	76.8	80.7	86.6	95.8	88.0	80.1	77.5	75.4	74.2
45°	67.6	67.6	70.2	72.2	78.7	87.3	79.4	72.2	70.9	69.6	68.9
47.5°	62.3	63.0	64.3	66.9	72.2	78.1	72.8	66.9	63.7	63.0	61.7
50°	55.8	56.4	59.0	61.7	68.3	71.6	68.3	61.7	58.4	56.4	56.4
52°	50.5	52.5	55.1	60.4	65.0	70.2	66.3	59.0	55.1	53.2	51.8
52.5°	49.9	51.2	53.8	59.7	65.0	69.6	65.6	58.4	53.8	52.5	51.2
55°	44.7	46.6	51.2	58.4	64.3	69.6	64.3	57.8	51.2	47.9	46.6
57.5°	42.6	44.0	49.9	59.0	63.7	69.6	64.3	57.8	51.2	45.2	44.0
60°	40.7	43.3	49.9	57.1	63.0	70.2	65.0	57.1	49.9	42.6	42.6
62.5°	38.7	40.7	49.2	55.8	60.4	67.6	62.3	55.8	47.9	40.7	40.0
65°	33.5	36.8	43.3	46.6	51.8	58.4	53.2	48.5	42.0	36.1	35.4
67.5°	25.6	26.9	32.1	36.1	39.4	45.2	42.6	36.8	32.1	27.6	27.6
70°	17.7	19.0	23.0	25.0	28.3	31.5	29.5	25.0	21.7	19.0	18.3
72.5°	12.4	13.1	14.5	15.7	17.1	18.3	17.7	14.5	12.4	11.8	11.2
75°	9.8	11.2	11.8	11.2	10.5	9.8	9.8	8.5	7.2	6.6	6.6
77.5°	9.8	10.5	9.8	8.5	7.2	6.6	5.9	5.2	4.0	3.3	4.0
80°	8.5	8.5	8.5	7.2	6.6	5.9	5.2	4.6	4.0	3.3	3.3
82.5°	9.2	9.2	8.5	7.2	7.2	5.9	5.9	5.2	4.6	3.3	3.3
85°	0.0	0.0	0.0	1.3	3.3	5.9	5.9	5.2	4.6	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.6	3.3	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1449.0	1473.9	1521.2	1568.5	1597.3	1631.5	1693.2	1726.0	1768.6	1789.6	1830.9
5°	1167.5	1226.5	1247.5	1301.4	1359.1	1416.8	1508.8	1609.8	1693.8	1751.6	1826.4
7.5°	851.8	865.6	947.0	983.0	1077.6	1182.6	1307.9	1435.3	1541.6	1636.1	1693.2
10°	638.6	689.0	740.2	809.1	885.3	993.6	1113.7	1254.1	1391.9	1486.5	1558.6
12.5°	513.2	553.2	621.5	695.7	789.4	861.0	981.8	1120.9	1299.4	1391.9	1487.1
15°	388.5	439.7	517.1	593.9	693.0	768.5	890.5	1065.8	1295.5	1422.8	1504.8
17.5°	288.1	322.9	392.4	478.4	579.4	685.8	850.5	1059.8	1339.5	1491.0	1575.7
20°	220.5	232.3	276.3	353.1	462.6	601.8	785.6	1085.5	1469.4	1657.0	1743.1
22.5°	178.5	183.8	200.8	254.0	360.3	528.3	754.7	1103.1	1615.7	1855.9	1970.7
25°	155.5	154.2	165.3	188.4	281.6	459.4	715.4	1170.1	1794.9	2089.5	2192.6
27.5°	141.8	141.8	147.0	163.4	233.6	414.8	690.4	1218.0	1975.3	2294.9	2350.7
30°	134.6	135.8	151.0	156.2	194.3	361.6	649.0	1266.5	2147.9	2426.2	2503.0
32.5°	124.7	119.4	116.1	129.3	163.4	313.7	607.7	1286.9	2287.7	2587.0	2652.6
35°	95.8	93.2	97.1	107.0	140.4	273.0	561.8	1309.9	2448.5	2773.4	2786.5
37.5°	86.6	86.0	88.6	97.1	118.2	237.6	528.9	1304.0	2571.2	2927.6	2892.1
40°	80.1	80.1	82.0	89.2	105.6	212.6	494.8	1298.8	2690.0	3100.9	2997.2
42.5°	74.8	74.8	78.1	82.7	100.4	196.2	469.2	1291.5	2789.8	3207.2	3058.8
45°	67.6	69.6	74.8	79.4	101.8	185.1	450.2	1263.9	2823.9	3205.8	3029.3
47.5°	62.3	65.0	70.2	76.8	91.8	181.8	437.1	1239.6	2812.1	3127.1	2936.8
50°	56.4	59.7	66.9	78.1	78.1	175.2	423.3	1261.3	2803.6	3066.0	2848.1
52°	52.5	55.1	64.3	76.1	68.3	161.5	414.8	1303.3	2838.3	3058.1	2808.8
52.5°	51.8	53.8	62.3	74.8	65.0	158.8	408.8	1313.1	2849.5	3038.4	2835.7
55°	45.9	48.5	57.1	58.4	53.2	130.6	389.8	1335.5	2794.4	2999.8	2810.1
57.5°	43.3	44.7	50.5	47.9	45.9	98.4	335.3	1300.7	2482.0	2664.4	2614.5
60°	40.0	41.4	47.3	37.4	38.7	68.9	252.0	1129.5	1993.1	2220.2	2310.1
62.5°	38.7	38.1	44.7	30.2	32.8	49.9	177.9	918.1	1535.7	1827.7	1983.2
65°	34.1	33.5	32.1	25.6	28.3	38.7	106.3	599.1	1082.2	1382.8	1468.0
67.5°	26.2	27.6	23.6	20.4	23.6	30.2	59.0	268.4	567.7	829.5	898.4
70°	18.3	19.7	19.0	17.7	21.0	25.0	34.1	91.8	235.0	435.7	480.4
72.5°	11.2	13.8	14.5	15.1	18.3	21.7	24.3	29.5	62.3	154.2	191.7
75°	6.6	9.2	11.2	13.1	15.1	18.3	20.4	21.0	21.7	28.8	46.6
77.5°	4.6	6.6	9.8	12.4	15.1	18.3	21.7	23.0	21.7	20.4	21.7
80°	4.0	6.6	9.2	11.8	15.7	19.0	21.7	21.7	21.0	18.3	19.7
82.5°	4.0	6.6	9.8	12.4	15.1	18.3	21.0	21.7	19.7	18.3	19.0
85°	4.6	7.2	10.5	13.1	16.4	15.1	13.8	11.2	10.5	8.5	9.2
87.5°	4.6	6.6	6.6	7.2	7.9	7.9	7.9	7.2	5.9	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1833.0	1885.4	1883.5	1884.8	1876.9	1823.7	1798.1	1733.2	1751.6	1743.6
5°	1903.2	1955.0	1999.6	1994.3	1934.0	1861.8	1754.8	1653.7	1626.2	1585.5
7.5°	1833.0	1957.6	1999.0	1993.1	1903.8	1811.3	1640.6	1539.6	1491.7	1464.8
10°	1721.4	1865.8	1916.9	1927.4	1867.0	1726.7	1569.8	1407.7	1382.1	1335.5
12.5°	1657.7	1762.7	1794.2	1822.4	1801.4	1696.5	1516.0	1360.4	1325.0	1294.1
15°	1605.9	1668.2	1681.3	1713.5	1726.0	1669.6	1544.2	1411.6	1324.3	1321.0
17.5°	1653.7	1628.2	1580.2	1590.1	1629.5	1670.1	1617.0	1512.7	1428.0	1417.5
20°	1733.2	1620.3	1512.0	1536.3	1569.1	1693.8	1727.2	1653.7	1605.2	1578.3
22.5°	1824.4	1634.1	1490.3	1502.2	1564.5	1746.9	1905.8	1865.1	1774.5	1735.8
25°	1993.1	1672.2	1507.4	1515.3	1600.6	1821.1	2067.2	2097.4	2043.6	2035.7
27.5°	2157.8	1770.6	1544.8	1527.1	1619.0	1893.3	2165.0	2327.1	2232.6	2214.2
30°	2241.8	1850.6	1600.6	1570.4	1695.1	1937.2	2224.0	2476.7	2394.0	2385.5
32.5°	2370.4	1923.5	1643.9	1605.2	1737.8	1991.7	2334.3	2640.2	2560.1	2517.4
35°	2424.2	2002.9	1739.1	1693.8	1859.9	2067.9	2390.7	2785.8	2760.9	2719.5
37.5°	2527.9	2088.2	1851.3	1848.7	2007.5	2167.0	2492.5	2984.0	2979.4	2907.8
40°	2536.5	2181.4	2028.5	2111.2	2235.9	2339.6	2581.7	3039.1	3114.0	3065.4
42.5°	2549.6	2344.8	2335.0	2403.2	2510.2	2487.8	2585.0	3052.2	3166.4	3137.6
45°	2555.5	2508.2	2646.7	2772.7	2817.4	2682.1	2554.1	3027.3	3194.0	3121.8
47.5°	2508.2	2648.6	2898.7	3142.1	3155.3	2801.5	2541.0	3001.7	3210.4	3162.5
50°	2514.8	2736.6	3116.6	3334.5	3286.5	2907.3	2520.7	2986.0	3201.9	3169.7
52°	2499.0	2738.5	3147.4	3330.5	3297.1	2848.8	2485.9	2925.6	3194.0	3217.0
52.5°	2516.8	2726.8	3115.2	3333.1	3289.8	2877.7	2481.3	2959.1	3198.6	3152.0
55°	2455.7	2586.3	2926.9	3019.4	3012.9	2611.9	2340.3	2848.1	3078.5	3079.2
57.5°	2219.5	2241.8	2295.6	2293.7	2263.5	2053.5	2001.6	2619.1	2744.4	2676.2
60°	1955.7	1641.3	1496.3	1437.2	1403.7	1369.7	1770.6	2396.0	2407.8	2378.9
62.5°	1689.9	1138.0	945.0	928.6	936.5	1061.2	1711.5	2307.4	2236.6	2174.2
65°	1363.7	829.5	686.4	664.8	741.6	876.1	1385.4	1769.3	1660.3	1608.5
67.5°	856.4	605.1	464.0	423.3	515.8	603.1	910.2	1111.7	989.6	918.1
70°	508.0	338.0	210.0	188.4	211.9	321.6	509.9	554.6	458.8	422.0
72.5°	200.2	124.0	58.4	49.9	51.8	112.9	187.7	183.1	138.4	123.4
75°	53.8	37.4	20.4	16.4	13.8	21.0	30.2	19.7	7.2	9.2
77.5°	25.0	22.3	17.7	13.8	10.5	7.9	4.0	1.3	1.3	0.7
80°	21.7	19.0	16.4	13.8	10.5	6.6	3.3	0.7	0.7	0.7
82.5°	20.4	17.7	15.1	12.4	9.8	6.6	3.3	0.7	0.0	0.0
85°	8.5	11.2	12.4	11.8	10.5	6.6	3.3	0.7	0.0	0.0
87.5°	4.6	4.0	3.3	2.6	1.9	1.3	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)